

28662

S/020/61/140/002/007/023
C111/C444

On the number of the simple bases ...

35. - 37. 1.) $x_1 + x_2$;

2.) 1;

3.) a) $x_1 x_2$;

b) $x_1 \vee x_2$;

c) $x_1 x_2 + x_1 x_3 + x_2 x_3$.

38. - 40. 1.) $x_1 + x_2 + 1$;

2.) 0;

3.) a) $x_1 x_2$;

b) $x_1 \vee x_2$;

c) $x_1 x_2 + x_1 x_3 + x_2 x_3$.

41. - 44. 1.) \bar{x} ;

2.) a) $x_1 x_2 + x_1 x_3 + x_2 x_3$;

b) $x_1 x_2 + x_1 x_3 + x_2 x_3 + x_1 + x_2$;

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On the number of the simple bases ... S/020/61/140/002/007/023
C111/C444

3.) a) 0;

b) 1.

45. 1.) $x_1x_2 + x_1x_2 + x_2x_3 + x_1 + x_2$;
2.) 0;
3.) 1.

IV. Bases consisting of four functions

46. - 47. 1.) a) x_1x_2 ;
b) $x_1 \vee x_2$;
2.) 0;
3.) 1;
4.) $x_1 + x_2 + x_3$.
48. 1.) 0;
2.) 1;

Card 6/7

X

28662

S/020/61/140/002/007/023
C111/C444

On the number of the simple bases ...
3.) $x_1 + x_2 + x_3$;
4.) $x_1x_2 + x_1x_3 + x_2x_3$.

The author mentions: Zhegalkin.

There is one Soviet-bloc reference.

ASSOCIATION: Moskovskiy gosudarstvennyy pedagogicheskiy institut
imeni V. J. Lenina (Moscow State Pedagogical Institute
imeni V. J. Lenin)

PRESENTED: April 28, 1961, by P. S. Novikov, Academician

SUBMITTED: April 20, 1961

X

Card 7/7

ISAKOV, A.A. (Kemerovskaya oblast'); ZHURGARAYEV, Amangel'dy (Dzhambul'-skaya obl., KazSSR); VLADIMIROV, A. (Asbest); FRIMAN, L.I. (Yaroslavl'); KILIMNIK, Ya.Ye. (Vinnitsa); TEREKHOV, I.A. (Skopin); AKDAULETOV, N.A. (pos.Mertuk. KazSSR); ZAKHARKIN, V.Ye. (pos.Rudtsev, Tul'skaya oblast'); SHESTOPAL, G.A. (Moskva); KOTIY, O.A. (Yaroslavl'); GAUKHMAN, V.A. (Moskva); LOPSHITS, A.M. (Yaroslavl'); SERGUSHOV, S.A. (Yaroslavl'); GOTMAN, E.G. (Pechora); VETROV, K.V. (Putintsevo, Vostochno-Kazakhstanskoy obl.); MIKHELEVICH, Sh.Kh. (Daugavpils); SKOPETS, Z.A. (Yaroslavl'); RYERKOV, L.M. (Yaroslavl'); CHEGODAYEV, A.I. (Gavrilov-Yam)

Problems. Mat.v shkole no.6:85-92 N-D '62. (MIRA 16:1)
(Mathematics--Problems, exercises, etc.)

LAPUNOW, A. A.; SZESTOPAL, G. A. (Moskwa)

An algorismic interpretation of control processes. Rocznik matematyczny 4
no. 2: 187-202 '61.

(Automatic control) (Railroads)

Shestopal, I.
SHESTOPAL, I., kand.tekhn.nauk.

Out of the past of construction technology. Stroitel' no.9:29
S '57. (MIRA 10:12)
(Construction industry--History)

SHESTOPAL, I.A.

We are improving the operation of telegraph apparatus. Vest. sviazi
23 no.2:22-24 F '63. (MIRA 16:2)

1. Nachal'nik Khabarovskogo tsentral'nogo telegrafa.
(Telegraph)

KARMAN, Theodor, von, 1881- ; SHESTOPAL, M.G. [translator]; LOPSHITS, A.M.,
redaktor

[Mathematical methods in engineering. Translated from the English]
Matematicheskie metody v inzhenernom dele. Perevod s angliiskogo
M.G.Shestopal. Pod redaktsiei A.M.Lopshitsa. Moskva, Gos. Izd-vo
tekhniko-teoretich. lit-ry, 1946. 422 p. (MLN 10:10)
(Engineering) (Dynamics) (Differential equations)

SANTALO, L.A.; SHESTOPAL, M.G. [translator]; LOPSHITS, A.M., redaktor;
YAGLOM, I.M., redaktor; AGRANOVICH, M.S., redaktor; GRIBOVA, M.P.,
tekhnicheskiy redaktor

[Introduction to integral geometry. Translated from the English]
Vvedenie v integral'nuiu geometriiu. Perevod s angliiskogo M.G.
Shestopal. Pod red. A.M.Lopshitsa i I.M.Iagloma. S dop. I.M.
Iagloma. Moskva, Izd-vo inostrannoi lit-ry, 1956. 183 p.
(Geometry, Differential) (MLRA 10:1)

... [REDACTED] (Vorstellung); S. M. K. [REDACTED]
[REDACTED] (Poland, Mat. nos. 1948-63 '67.

(Kfz. 1011)

(Poland--[REDACTED])

BERMAN, Georgiy Nikolayevich [deceased]. Prinimali uchastiya: ARAMANOVICH,
I.G.; KORDEMSKIY, B.A.; POZOYSKIY, R.I.; SHESTOPAL, M.G.; SOLODKOV,
V.A., red.; AKHLLAMOV, S.N., tekhn.red.

[Collection of problems for the course in mathematical analysis]
Sbornik zadach po kursu matematicheskogo analiza. Izd.10, perer.
i dop. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 443 p.
(MIRA 13:12)

(Mathematical analysis--Problems, exercises, etc.)

SOVALOV, I.G., kand. tekhn. nauk, nauchn. red.; SHESTOPAL, N.M.,
kand. tekhn. nauk, nauchn. red.; FINKINSSTEYN, B.A., inzh.,
1964.

[Problems in improving the organization of construction and
the overall mechanization of building and assembling opera-
tions] Voprosy uluchsheniia organizatsii stroitel'nogo pro-
izvodstva i kompleksnoi mekhanizatsii stroitel'no-montazh-
nykh rabot. Moskva, Stroiizdat, 1964. 78 p.
(MIRA 18:11)

and V. M. Vinogradov, kand. tekhn. nauch.; I. N. K. N.,
Aleksandr Pavlovich, kand. tekhn. nauch.; M. T. M., k. n.,
Inzh., nauchn. red.; G. L. V. N., k. n., red.

Walls and roofs of residential and industrial farm buildings
in Poly i krovli zhilykh i preizvodstvennykh sel'skogo
khoziastvennykh zdanii. Moscow, Stroizdat, 1964. 109 p.
(MIL 17:8)

SHESTOPAL, N.

Allowances in standards. Stroitel' 8 no.7:3-5 Jl '62.
(MIRA 15:8)
(Standards, Engineering)

SOFINSKIY, I.D.; BLOKHIN, P.N.; GEL'BERG, L.A.; ZHDANOV, P.M.; IVASHCHENKO, I.P.; LEVINA, G.P.; NAUMOVA, N.A.; SMIRNOV, N.S.; ARONOVA, R.I.; NIKOLAYEV, N.A.; SHERENTSIS, A.A.; KOVALEVSKIY, I.I.; LOBACHEV, P.V.; SLADKOV, S.P.; DZIGAN, A.V.; FORAFONOV, N.K. Prinimali uchastiye: ARGANSKIY, A.S.; ASMUS, Ye.N.; BEZHALOVA, Ya.M.; BOGATYKH, Ya.D.; BURENIN, V.A.; GOL'DING, N.P.; DOMSHLAK, I.P.; MOSKALEV, S.A.; RABINOVICH, S.G.; ROGOVSKIY, L.V.; KHOKHLOVA, L.P.; SHESTOPAL, N.M.. RUBANENKO, B.R., glavnnyy red.; GALKIN, Ya.G., zamest.glavnogo red.; SAPRYKIN, V.A., red.; SHCHEPETOV, V.M., red.; NOVITCHENKO, K.M., nauchnyy red.; VILKOV, G.N., inzh., red.izd-va; TYAPKIN, B.G., red. izd-va; EL'KINA, E.M., tekhn.red.

[Building your own home] Spravochnik individual'nogo zastroishchika. Moskva, Gos.izd-vo lit-ry po stroit.materialam, 1958. 442 p.
(MIRA 12:2)

1. Akademiya stroitel'stva i arkhitektury SSSR.
(Building)

POPOV, A.N.; SHESTOPAL, N.M., kand. tekhn. nauk

Lowering transportation costs in construction by reducing the
weight of buildings. Prom. stroi. 37 no.6:30-33 Je '59.
(MIRA 12:8)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR
(for Popov)
(Building materials--Transportation)
(Industrial buildings)

POPOV, A.; SHESTOPAL, N., kand.tekhn.nauk; RUCH'YEV, A., inzh.

Houses built of prefabricated room-units. Stroitel' no.7:11 Jl
'60. (MIRA 13:8)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR
(for Popov).
(Precast concrete construction)
(Apartment houses)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4

SHESTOPAL, N.M., kand.tehn.nauk; RUCH'YEV, A.I., inzh.

Prospects for the development of the manufacture of large three-dimensional elements using new building materials. Struk. mat. (MIRA 14:10)
7 No.10:33-37 9 '61.
(Buildings, Prefabricated) (Building materials)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4"

RUCH'YEV, A.P., inzh., aspirant; SHESTOPAL, N.M., kand. tekhn.
nauk

[Construction of residential buildings from three-dimensional blocks] Stroitel'stvo zhilykh zdaniy iz prostranstvennykh blokov; nauchnye soobshcheniya. Moskva, Gosstroizdat, 1961. 68 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva. Byuro tekhnicheskoy informatsii. 2. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva (for Ruch'yev). 3. Uchenyy sekretar' Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva (for Shestopal).
(Apartment houses)

SHESTOPAL, O. S.

Kolymski vodnyi put'. [The Kolyma waterway]. (Sovetskaia Arktika, 1940, no. 4, p. 53-57, illus.). DLC: G600.S6

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

SHESTOPAL, O.S..

SHESTOPAL, O.S. Gidrologiia i gidrometriia reki; uchebnik dlia tekhnikumov Ministerstva
rechnogo flota. Moskva, Minist. rechnogo flota SSSR, 1946. 446 p.

DLC: GBL207.S5

SO: LC, Soviet Geography, Part I, 1951, Uncl.

BASHKIROV, Gennadiy Sergeyevich; SHESTOPAL, O.S., red.; LAPINA, Z.D.,
red.izd-va; LAVRENOVA, N.B., tekhn. red.

[Dynamics of the shore zone of seas] Dinamika pribrezhnoi zony
moria. Moskva, Izd-vo "Morskoi transport," 1961. 219 p.
(MIRA 15:3)

(Seashore)

SHESTOPAL, O. Ya. (Novosibirsk); SHURIN, Ya.I. (Novosibirsk)

Experimental determination of pressure distribution in a thin
circulat plate compressed between two plane anvils. PMTF no. 6:
(MIRA 17:7)
174-176 N-D '63.

SHESTOPAL, P. S.

29162

Voprosy vyrashchivaniya arbusov i dyn' v usloviyakh BSSR. Izvestiya Akad.
Nauk BSSR, 1949, No. 4, s. 131-38

SO: Letoonis' Zhurnal'nykh Statev, Vol. 39, Moskva, 1949

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4

copy APM, p. 2; "Master Copy 841 (100) -- Inspection of ground water tables and wells in the Kharlamov SFR". (Arch), 1951. 17 pp (Ministry Order of Water and Forest Affairs Acad), 150 copies (Kh. No 13, 1950, 116)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4"

13(5), 25(1)

AUTHOR:

Shestopal, V.M.

SOV/128-59-5-13/35

TITLE: Air Flow Sand Drying

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 5, pp 24-25 (USSR)

ABSTRACT: The author describes three different methods of drying sand by hot air. In Fig. (1) the method used by the factory ZPS at Gotwald (Czechoslovakia) is shown. The sand which has to be dried falls in front of a nozzle which releases hot air of 800°C, transporting the sand to the top. Capacity 1 ton per hour. In Fig. (2) and (3) a method is shown which is used by the Ford factory in London. Fig. (4) shows a method similar to the one used by the firm of Costner in Australia. There are 4 diagrams

Card 1/1

SHESTOPAL, V-M

M

3

The Foundries of the Gorkovsk Automobile Works of the Name of Molotov.
V. M. Shestopal (*Litinoye Delo (Foundry Practice)*, 1938, (6), 27-30). [In
Russian.] A description of the non-ferrous foundry and other workshops of
this concern. N. A.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4"

• CHE-TOKH, AM.

CA

21

Self-sludging coke. V. M. Shestopal. *Vestnik Inzhenerov Tsvh.* 1938, 205-6; *CHMIZNIK* 1939, II, 1057.
By preliminary treatment of the coal with lime and other materials serving as fluxing agents in the production of iron the addition of a flux in the production of the iron can be omitted. Analysis of a coke so prepared showed volatile constituents 0.77, ash 20.1, Si 0.08 and C 78.81%. Analysis of the ash gave Si 21.0, Al 18.5, Fe oxides 2.07 and lime 40.6%. The temp. of the fused metal corresponded to that with the use of normal coke and reached 1,650°. The consumption of coke amounted to about 7% of the amt. of metal. The m. p. of the slag was much higher and the attack on the furnace lining was much less. Lime consumption was half as great as with the use of a flux. The iron took up much less C. M. G. Moore

APPENDIX A METALLURGICAL LITERATURE CLASSIFICATION

SHESTOPAL, V. M. ed. and I. P. EGORENKO.

Otlivki iz chuguna; svoistva i konstruirovaniye. Utverzhdeno v kachestve
uchebn. posobiia dlia mashinostroit. vtuzov. Moskva, Mashgiz, 1945.
139 p. illus.

Bibliography: p. 137-138.

Cast-iron castings; properties and design.

DLC: TS230.S56

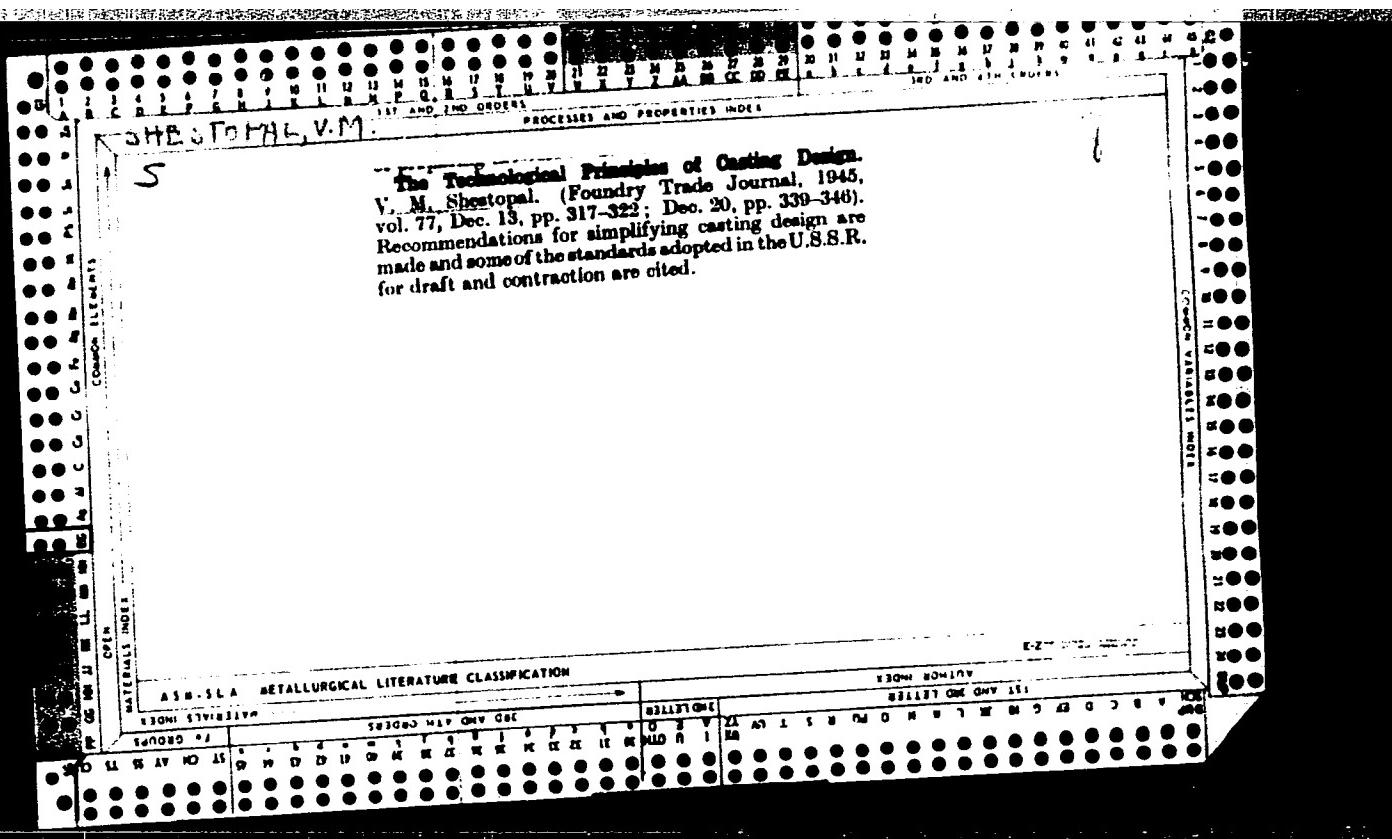
SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4"



SHESTOVAL, V. M. ed.

Brak chugunnogo lit'ia i bor'ba s nim. Moskva, Mashgiz, 1946. 196 p.

Rejected iron castings and prevention of spoilage.

DLC: Unclass

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SHESTOPAL, V. M. ed.

Sovremennye napravleniya v proizvodstve chugunnogo lit'ia. Moskva,
Mashgiz, 1946. 111 p.

Modern trends in the production of cast-iron castings.

DLC: Unclass

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.

AKSENOV, N.P., professor doktor tekhnicheskikh nauk; SHESTOPAL, V.M.,
redaktor; GAKOVA, Ye., tekhnicheskiy redaktor

[Foundry equipment] Oborudovanie liteinykh tsakhov. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1946. 551 p. (MLRA 9:11)
(Foundry machinery and supplies)

SHESTCPAL, V. M. ed and F. F. KULESHOV.

Progressivnaia tekhnologija proizvodstva krupnogo lit'ia.
(Vestn. Mash., 1948, no. 7, p. 23-30)

Refers to "Stankolit" Ironworks and Moscow J. V. Stalin Machine Tools and Instruments Institute.

Advanced technique in production of large-size castings.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SHUSTOV, V. M. ed.

Lit'e v stankostroenii. Moskva, Mashgiz, 1949. 231 p. illus.

Bibliography: p. 229-231.

Founding in machine-tool construction.

DLC: TJ1185.S54

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SHESTOPAL, V. M.

USSR/Engineering - Foundry, Equipment

Apr 52

"On the Problem of Calculating the Precision of Casting Molds," V. M. Shestopal, Cand Tech Sci, Giprostanok

"Litsey Proizvod" No 4, pp 19-22

Discusses method of "dimensional chains" for designing casting molds. For each mold or its sep assembly a group of dimensions is selected. These dimensions, being distributed in definite succession along closed contour, comprise "dimensional chain," themselves representing links of this chain. Value of closing link, which has to be detd, is equal to algebraic sum of all other links. Mold for gearbox of turret lathe illustrates application of method.

213T68

SHESTOPAL, V.M.

GRINBERG, B.G.; RUBTSOV, N.N., professor, doktor tekhnicheskikh nauk, laureat Stalinskoy premii, zasluzhennyy deyatel' nauki i tekhniki, retsenzent; RAKOV, V.M., kandidat tekhnicheskikh nauk, dotsent, retsenzent; SHESTOPAL, V.M., kandidat tekhnicheskikh nauk, dotsent, retsenzent; YUDIN, S.T., nauchnyy redaktor; EZHAVINSKIY, V.V., redaktor; RAKOV, S.I., tekhnicheskiy redaktor.

[Fundamentals of metal casting] Osnovy liteinogo proizvodstva. Moskva, Vses.uchebno-pedagog. izd-vo Trudrezervizdat, 1953. 263 p. [Microfilm]
(Founding) (MILB 7:10)

SHESTOPAL, V.M.

Comparative costs of cast and welded construction. Lit.proizv. no.9:24
(MLRa 6:9)
S-0 '53.
(Founding) (Welding)

SHESTOPAL, V.M.

USSR/Miscellaneous - Foundries

Card 1/1 : Pub. 61 - 5/23

Authors : Rykhletskiy, I. Z., and Shestopal, V. M.

Title : Typical iron foundries

Periodical : Lit. proizv. 4, 12-14, July 1954

Abstract : Standards set up by the 19-th congress of the Communist Party USSR for the planning and construction of modern foundries are discussed. The technical and economical features, to be taken into consideration in the planning of foundry plants, are listed. Plans and tables showing the basic characteristics of two typical foundry plants intended for large scale machine construction, pipe casting, etc., are included.

Institution : ...

Submitted : ...

ANDREYEV, A.B.; ANTONOV, A.I.; ARAPOV, P.P.; BARMASH, A.I.; BEDNYAKOVA, A.B.; BENIN, G.S.; BERESNEVICH, V.V.; BERNSTEYN, S.A.; BITIUTSKOV, V.I.; BLYUMENBERG, V.V.; BONCH-BRUYEVICH, M.D.; BORMOTOV, A.D.; BULGAKOV, N.I.; VEKSLER, B.A.; GAVRILENKO, I.V.; GENDLER, Ye.S., [deceased]; GERLIVANOV, N.A., [deceased]; GIBSHMAN, Ye.Ye.; GOLDOVSKIY, Ye.M.; GOBUKOV, P.P.; GORYAINOV, F.A.; GRINBERG, B.G.; GRYUNER, V.S.; DANOVSKIY, N.F.; DZEVUL'SKIY, V.M., [deceased]; DREMAYLO, P.G.; DYBETS, S.G.; D'YACHENKO, P.F.; DYURNEBAUM, N.S., [deceased]; YEGORCHENKO, B.F., [deceased]; YEL'YASHKEVICH, S.A.; ZHIREBOV, L.P.; ZAVEL'SKIY, A.S.; ZAVEL'SKIY, F.S.; IVANOVSKIY, S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.; KASATKIN, F.S.; KATSUROV, I.N.; KITAYGORODSKIY, I.I.; KOLESNIKOV, I.F.; KOLOSOV, V.A.; KOMAROV, N.S.; KOTOV, B.I.; LINDE, V.V.; LEBEDEV, H.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu.; LIJTSAU, V.K.; MANNERBERGER, A.A.; MIKHAYLOV, V.A.; MIKHAYLOV, N.M.; MURAV'YEV, I.M.; NYDEL'MAN, G.E.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Ye.S.; POPOV, V.V.; POPOV, N.I.; RAKHLIN, I.Ye., RZHEVSKIY, V.V.; ROZENBERG, G.V.; ROZENTRETER, B.A.; ROKOTIAN, Ye.S.; RUKAVISHNIKOV, V.I.; RUTOVSKIY, B.N. [deceased]; RYVKIN, P.M.; SMIRNOV A.P.; STEPANOV, G.Yu.; STEPANOV, Yu.A.; TARASOV, L.Ya.; TOKAREV, L.I.; USPASSKIY, P.P.; FEDOROV, A.V.; FERE, N.E.; FRENKEL', N.Z.; KHEYFETS, S.Ya.; KHLOPIN, M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, N.I.; SHISHKINA, N.N.; SHOR, E.R.; SHPICHENETSKIY, Ye.S.; SPRINK, B.E.; SHTERLING, S.Z.; SHUTYY, L.R.; SHUKHGAL'TER, L. Ya.; ERVAYS, A.V.;

(Continued on next card)

ANDREYEV, A. B. (continued) Card 2.

YAKOVLEV, A. V.; ANDREYEV, Ye. S., retsenzent, redaktor; BERKEN-
GEYM, B. M., retsenzent, redaktor; BERMAN, L. D., retsenzent, redaktor;
BOLTINSKIY, V. N., retsenzent, redaktor; BONCH-BRUYEVICH, V. L.,
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A. V., retsenzent, redaktor; GUDTSOV, N. T., retsenzent, redaktor;
DEGTYAREV, I. L, retsenzent, redaktor; DEM'YANYUK, F. S., retsenzent;
redaktor; DOBROSMYSLOV, I. N., retsenzent, redaktor; YELANCHIK, G. M.
retsenzent, redaktor; ZHEMOCHKIN, D. N., retsenzent, redaktor;
SHURAVCHENKO, A. N., retsenzent, redaktor; ZLODEYEV, G. A. retsenzent,
redaktor; KAPLUNOV, R. P., retsenzent, redaktor; KUSAKOV, M. M.,
retsenzent, redaktor; LEVINSON, L. Ye., [deceased] retsenzent, redaktor;
MALOV, N. N., retsenzent, redaktor; MARKUS, V. A. retsenzent, redaktor;
METELITSYN, I. I., retsenzent, redaktor; MIKHAYLOV, S. M., retsenzent;
redaktor; OLIVETSKIY, B. A., retsenzent, redaktor; PAVLOV, B. A.,
retsenzent, redaktor; PANYUKOV, N. P., retsenzent, redaktor; PLAKSIN,
I. N., retsenzent, redaktor; RAKOV, K. A. retsenzent, redaktor;
RZHAVINSKIY, V. V., retsenzent, redaktor; RINHERG, A. M., retsenzent;
redaktor; ROGOVIN, N. Ye., retsenzent, redaktor; RUDENKO, K. G.,
retsenzent, redaktor; RUTOVSKIY, B. N., [deceased] retsenzent,
redaktor; RYZHOV, F. A., retsenzent, redaktor; SANDOMIRSKIY, V. B.,
retsenzent, redaktor; SKRAMTAYEV, B. G., retsenzent, redaktor;
SOKOV, V. S., retsenzent, redaktor; SOKOLOV, N. S., retsenzent,
redaktor; SPIVAKOVSKIY, A. O., retsenzent, redaktor; STRAMENTOV, A. Ye.,
retsenzent, redaktor; STRELETSKIY, N. S., retsenzent, redaktor;

(Continued on next card)

ANDREYEV, A.V.,(continued) Card 3.

TRET'YAKOV, A.P., retsenzent, redaktor; FAYERMAN, Ye.M., retsenzent,
redaktor; KHACHATTYROV, T.S., retsenzent, redaktor; CHERNOV, H.V.,
retsenzent, redaktor; SHERGIN, A.P., retsenzent, redaktor; SHESTO-
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SHOCHAPOV, N.M., retsenzent, redaktor; YAKOBSON, M.O., retsenzent,
redaktor; STEPANOV, Yu.A., Professor, redaktor; DEM'YANYUK, F.S.,
professor, redaktor; ZNAMENSKIY, A.A., inzhener, redaktor; PLAKSIN,
I.N., redaktor; RUTOVSKIY, B.N. [deceased] doktor khimicheskikh nauk,
professor, redaktor; SHUKHgal'TER, L. Ya, kandidat tekhnicheskikh
nauk, dotsent, redaktor; BRESTINA, B.S., redaktor; ZNAMENSKIY, A.A.,
redaktor.

(Continued on next card)

ANDREYEV, A. V. (continued) Card 4.

[Concise polytechnical dictionary] Kratkii politekhnicheskii slovar'. Redaktsionnyi sovet; IU. A. Stepanov i dr. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1955. 1136 p. (MLRA 8:12)

1. Chlen-korrespondent AN SSSR (for Plaksin)
(Technology--Dictionaries)

SHESTOPAL, V.M.

Pneumatic transportation of molding materials in foreign countries.
Lit.proizv. no.12:12-13 D '55. (MLRA 9:3)
(Pneumatic-tube transportation) (Molding)

ORESHKIN, Vladimir Dmitriyevich; SHESTOPAL, V.M., kandidat tekhnicheskikh
nauk, retsenzent; YUDIN, S.T., inzhener, retsenzent; VOLPYANSKIY,
L.M., inzhener, redaktor; DUGINA, N.A., tekhnicheskiy redaktor

[Founding fundamentals] Osnovy liteinogo proizvodstva. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 339 p. (MLRA 10:4)
(Founding)

SHESTOPAL, V.M., kandidat tekhnicheskikh nauk; SAKHAROV, G.M., inzhener.

Standardization of basic parameters for foundry buildings. Lit.
proizv. no.5:22-23 My '56. (MLRA 9:8)
(Foundries) (Industrial buildings)

K

POLYAKOV, Yakov Grigor'yevich; SHESTOPAL, Viktor Mikhaylovich; ISLANKINA
T.P., redaktor; GUBIN, M.I., tekhnicheskiy redaktor.

[Development of cast iron production] Puti razvitiia tekhniki
chugunelitelnogo proizvodstva. Moskva, Izd-vo "Znanie," 1957.
31 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh
i nauchnykh znanii. Ser.4, no.6)[Microfilm] (MLRA 10:6)
(Cast iron)

Increasing Labor Productivity in Machine Building (Voprosy povysheniya proizvoditel'nosti trudy v mashinostroenii) Gosudarstvennoye nauch-tekh. izdat. mashinostroitel'. literature, Moscow, 1957. 511 pp.

(Table of Contents authors below)

This collection presents a comparative tech. and economic analysis of most effective methods and industrial processes for obtaining high labor productivity in machine building. Output may be stepped up by further standardization of machine tools, materials, and production methods; drawing on unused potentials. Covers all stages of planning and production as performed in modern plants of USSR, actual experience, and new methods are discussed.

SHESTOPAL, V. M., "Selecting methods of Making Castings," p. 226.

SHESTOPAL, V.M.

At the conference on founding in Leipzig. Lit. orevz. no. 12:27-30
D '57. (MIRA 11:1)
(Leipzig--Founding--Congresses)

SLEZNIKOV, G.I., inzh.; ANIENKOVA, Y.G., kand.tekhn.nauk; GRUDOV, P.P.,
kand.tekhn.nauk [deceased]; DEGTYARENKO, N.S., kand.tekhn.nauk;
IMSHENNIK, K.P., kand.tekhn.nauk; KASENKO, M.A., kand.tekhn.
nauk; MEL'NIKOV, N.F., inzh.; MAILOV, A.N., kand.tekhn.nauk;
POKROVSKIY, B.V., inzh.; POLYAK, S.M., kand.tekhn.nauk; POLYANSKIY,
A.N., kand.tekhn.nauk; POPILOV, L.Yu., inzh.; POPOV, V.A., kand.
tekhn.nauk; RUBINSHTEYN, S.A., kand.tekhn.nauk; SOKOLOV, N.L.,
inzh.; SHAMIRGON, S.A., inzh.; SHESTOPAL, V.M., kand.tekhn.nauk;
SHUKHOV, Yu.V., kand.tekhn.nauk; ACHERKAN, N.S., prof., doktor
tekhn.nauk, glavnyy red.; VIADISLAVLEV, V.S., red. [deceased];
POZDNYAKOV, S.N., red.; ROSTOVYKH, A.Ya., red.; STOLBIN, G.B.,
red.; CHERNAVSKIY, S.A., red.; KRYLOV, V.I., inzh, red.;
KARGANOV, V.G., inzh., red.graficheskikh rabot; SOKOLOVA, T.F.,
tekhn.red.

[Metalworking handbook in five volumes] Spravochnik metallista
v piati tomakh. Chleny red.soveta: V.S.Vladislavlev i dr.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.3..
Book 2. [Ferrous and nonferrous metal products] Sortament chernykh
i tsvetnykh metallov. 1958. 204 p. Vol.4. 1958. 778 p. (MIRA 12:1)
(Metalwork)

Metals Engineering Handbook in Five (Cont.)

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SHESTOPAL, V M

25(2), (7)

b PHASE I BOOK EXPLOITATION

SOV/1437

Spravochnik metallista v pyati tomakh, t. 4, (Metals Engineering Handbook
in Five Volumes, Vol 4) Moscow, Mashgiz, 1958. 778 p. 50,000 copies printed.

Ed. (Title page): A.N. Malov, Candidate of Technical Sciences; Ed. (Inside book):
V.I. Krylov, Engineer; Tech. Ed.: T.F. Sokolova; Editorial Board: N.S.
Acherkan (Chairman and Chief Ed.), Doctor of Technical Sciences, Professor;
V.S. Vladislavlev, Professor (Deceased); A.N. Malov, Candidate of Technical
Sciences; S.N. Pozdnyakov; A. Ya. Rostovsky; G.B. Stolbin; and S.A. Chernavskiy;
Managing Ed. for Reference Literature: V.I. Krylov, Engineer.

PURPOSE: This handbook may be useful to technicians and engineers working in the
field of machine design and production.

COVERAGE: This volume covers the following topics: casting, forging, pressing,
stamping, welding, electric methods of machining, and metal cutting. Recently
developed electrical methods of machining which are not yet used in production
are described; viz., the so-called "electropulse" and "electrohydraulic" methods.
No personalities are mentioned. There are 79 Soviet references.

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AVAILABLE: Library of Congress

Card 9/9

GO/gmp
5-25-59

SEARCHED INDEXED
SERIALIZED FILED

AUTHOR: None Given 117-58-5-25/24

TITLE: All-Union Conference of Foundry Workers (Vsesoyuznoye soveshchaniye liteyshchikov)

PERIODICAL: Mashinostroitel', 1958, Nr 5, p 48 (USSR)

ABSTRACT: At the end of 1957, an All-Union conference took place in Moscow on scientific research in casting. After the plenary session the meeting broke up into the following 5 sections: iron casting, steel casting, technology of the casting form, non-ferrous casting, and equipment. A total of 45 reports were given. Representatives of the satellites also participated.
V.M. Shestopal, Candidate of Technical Sciences (Giprostanok) reported on "The Latest in Projects of Foundry Shops and Plants". I.P. Yegorenkov, Candidate of Technical Sciences reported on "The Latest in Projects of Casting Machines". N.G. Girshovich, Professor and Doctor of Technical Sciences (LPI imeni Kalinin) reported on the important research work being accomplished in determining the continuity of solidification of castings. A.F. Landa, Professor, Yu.A. Litvintsev, Engineer and Florin of the Moskovskiy institut khimicheskogo mashinostroyeniye (Moscow Institut of Chemical Machine Build-

Card 1,3

All-Union Conference of Foundry Workers

117-58-5-23/24

ing) reported on increased corrosion resistance and heat resistance of high-test iron with ball-shaped graphite. A.Ye. Krivosheyev, Professor of the Dnepropetrovskiy metallurgical institut (Dnepropetrovsk Metallurgical Institute) reported on "The Crystallization of Chilled Iron". B.S. Mil'man, Candidate of Technical Sciences (TSNIIITMASH) reported on "The Formation of Ball-Shaped Graphite and Prospects for Receiving High Test Iron". N.D. Titov, Candidate of Technical Sciences (Automobile Plant imeni Likhachev) reported on "Conveyor Mass Production at ZIL". G.I. Kletskin, Candidate of Technical Sciences (Stankolit) spoke on "Improvements of the Process of Melting Iron in Cupola Furnaces". N.V. Gel'perin Candidate of Technical Sciences (NII TSKhM) reported on "Production of Crank Shafts for Tractor and Harvester Engines". I.N. Frolov, Engineer of the Barnaul'skiy kotel'nyy zavod (Barnaul Boiler Plant) reported on the centrifugal casting of important iron and steel parts. Ye.M. Baturin, Engineer, reported on "Risers in Exothermic Heat Treatment". N.Ya. Kogan, Engineer, (VPTI, GLAVNIIP at GOSPLAN USSR) reported on "A New Technology of Producing Large Castings in Mechanized

Card 2/3

All-Union Conference of Foundry Workers

117-58-5-23/24

Caissons". N.N. Belousov, Candidate of Technical Sciences and A.A. Dodonov, Engineer, K.G. Kovvi and Z.G. Mednikov talked about casting under pressure by using a vacuum. G.S. Taburinskiy, Engineer (NIILITMASH) reported on automatic machines for shell moulds and cores. The work of the conference will be published in 1958.

AVAILABLE: Library of Congress

Card 3/3 1. Foundry workers-Conference-USSR

SHZ - F. (ALC); C N.
8(6); 28(1)

PHASE I BOOK EXPLOITATION

SOV/2497

Akademiya nauk Ukrainskoy SSR. Institut elektrotehniki.

Voprosy ustoychivosti i avtomatiki energeticheskikh sistem (Problems in Stability and Automation of Power Systems) Kiyev, Izd-vo AN UkrSSR, 1959. 186 p. (Series: Its: Sbornik trudov, vyp. 16) Errata slip inserted. 4,000 copies printed.

Ed. of Publishing House: T. K. Remennik; Tech. Ed.: N. P. Rakhlina; Editorial Board: A. D. Nesterenko, Corresponding Member, Ukrainian SSR Academy of Sciences (Resp. ed.), S. A. Lebedev, Academician, S. I. Tetel'baum, Corresponding Member, Ukrainian SSR Academy of Sciences, A. N. Milyakh, Doctor of Technical Sciences, Ye. V. Khrushcheva, Candidate of Technical Sciences, and L. V. Tsukernik.

PURPOSE: This collection of articles was published in line with a directive of the scientific council of the Electrical Engineering Institute, Academy of Sciences, UkrSSR. It is intended for scientific engineering and technical personnel concerned with problems of stability and automatic control of power systems.

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Problems in Stability and Automation (Cont.)

SOV/2497

COVERAGE: The authors analyze static stability of a complex power system, taking into account automatic control and load characteristics. They discuss transients in a compensated network during short-circuiting to ground and describe methods of calculating transients in current transformers. They also consider basic features of calculating current transformers with magnetizing and discuss linear theory of magnetic amplifiers as well as new types of frequency relays and frequency measuring devices. No personalities are mentioned. References appear at the end of each article.

TABLE OF CONTENTS:

Foreword

3

Tsukernik, L.V. Characteristics of Lyapunov's Theory of Stability and Problems of Stability of Power Systems

5

The author presents a brief review of studies on the theory of stability of power systems and shows the importance of Lyapunov's work on the general theory of stability. There are 35 references, all Soviet (including 2 translations).

Tsukernik, L.V. Analysis of a Matrix of Equation Coefficients for a Disturbed Motion of a Complex Power System and Determination of the Order of a Characteristic Equation

21

Card 2/6

Problems in Stability and Automation (Cont.)

SOV/2497

Kachanova, N.A., and V.N. Shestopalov. Short-time Unloading of a Receiving Power System as a Means of Increasing Stability

77

The authors discuss short-time unloading of a receiving power system with automatic reclosing for increasing system stability. They briefly describe the construction and results of testing of a combined frequency relay which may serve as a starting mechanism for short-time unloading.

There are 3 references: 2 Soviet and 1 English.

Sirota, I.M. Methods of Calculating Transients in Current Transformers

87

The author presents a general analysis of a transient process and discusses a new and sufficiently accurate method of calculating transients. The method takes into account nonlinearity of magnetic characteristics of current-transformer core and inductance of a secondary-circuit load for any initial conditions. The author uses a method of so-called specific quantities as an auxiliary method of procedure and calculates transients with the aid of magnetization curves for iron for successive intervals of 0.25-0.50 periods. There are 13 references:

9 Soviet, 3 English and 1 German

Kubyshin, B.Ye. Problems of a Linear Theory of Magnetic Amplifiers

113

The author shows that a magnetic amplifier should be considered as a current or voltage generator controlled with d-c, a-c or pulse currents or voltages with a frequency lower than that of the magnetizing current.

Card 4/6

P: Items in Stability and Automation (1957.)

SOW/2497

He discusses equivalent circuits of magnetic amplifiers and derives expressions for amplifier parameters. There are 7 references, all Soviet (including 1 translation).

Kostyuk, O.M. Current Transformers with D-C Magnetization and Basic Aspects of Calculating Transformers Used in Circuits for Automatic Field Regulation of Synchronous Generators

135

The author discusses a graphic-analytical d-c magnetization used in circuits for automatic field regulation of synchronous machines. There are 8 references: 6 Soviet, 1 English and 1 German.

CIRCUITS, DEVICES AND EXAMPLES OF CALCULATIONS

153

Kachanova, N.A. and L.V. Tsukernik. Analysis of Static Stability of a Long-distance Transmission Line, Taking Into Account Complex Load Characteristics

153

The authors study the effect of voltage and frequency static characteristics of a complex load as well as the effect of dynamic characteristics of an equivalent induction motor on the stability of a long-distance power transmission line. They conclude that the dependence of load

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Problems in Stability and Automation (U.S.S.R.)

SCV/2497

conductance on voltage is the major factor affecting stability. There are 6 references, all Soviet.

Shestopalov, V.N. Device for Measuring Frequency

164

The author discusses an electronic device for frequency measurement by measuring the duration of a certain number of periods. The number of periods is counted by means of a trigger circuit similar to that used in computers. The duration is determined with the aid of a vacuum-tube generator stabilized by means of a tuning-fork electromechanical frequency transducer. Measurements obtained with the aid of the device are sufficiently accurate in the wide range of radio frequencies. There is 1 Soviet reference.

Kubyshin, B.Ye. Method of Calculating Magnetic Amplifiers on the Linear Theory

174

The author considers methods of selecting operating conditions for amplifiers and determining coefficients required in calculations. He presents a numerical example of calculating a magnetic amplifier for contactless power commutation. There is 1 Soviet reference.

AVAILABLE: Library of Congress

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Card 6/6

11-23-59

PLATE I BOOK EXPLANATION - Sov/3/99	
Leningrad.	Polytechnicheskiy Institut
Sovremennyye dostizheniya litmjogo proizvodstva, trudy	
nauchno-tekhnicheskoy konferencii (Recent	
Achivements in Foundry: Transactions of the Scientific	
and Technical Conference of Schools of Higher Education)	
Moscow, March 1970. 336 p. Kreeta slip inserted.	
4,000 copies printed.	
ResP. Ed.: Th. A. Nechendzi, Doctor of Technical Sciences,	
Professor; Eds.: N. G. Grigorovich, Doctor of Technical	
Sciences, Professor, and E. P. Lobedev, Dozent; Managing	
Ed., for Literature on Heavy Machine Building (Leningrad	
Department, Manager); Ye. P. Naumov, Engineer; Tech. Eds.:	
Ye. A. Dzhuganitskaya, and L. V. Shchastina.	
PURPOSE: This book is intended for the technical personnel	
or founders. It may be used by student of the field.	
COVERAGE: This collection of articles discusses problems in	
founding processes. Individual articles treat the melting	
of metals and their alloys, mechanization and automation	
of casting processes, aspects of the manufacture of steel,	
cast iron, and nonferrous metal castings. No personalities	
are mentioned. References account individual articles.	
REFERENCES: O. N. Rabinovich, Investigation of	25
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Foundry Machinery	91

Card 3/9

SHESTOPAL, V.M.

Unified line of foundry shops and plants. Lit. proizv. no.11:17-20
(MIRA 13:12)
N '60. (Founding) (Industrial organization)

ABRAM P.Ya.; ALEKSANDROVA, G.I.; VOL'SKIY, V.S.; GORDON, Kh.I.; KLIMOVICH, A.I.; LIFSHITS, V.A.; FEDOTOV, F.G.[deceased]; AVKSENT'YEV, P.A.,[retsenzent]; ZAKHAROV, N.N.[retsenzent]; KOCHANOV, M.I.[retsenzent]; LEKSASHOV, P.P.[retsenzent]; NOVIKOV, V.F.[retsenzent]; SOKOLOV, M.V.[retsenzent]; SHESTOPAL, V.M.[retsenzent]; YAKOBSON, M.O.[retsenzent]; GAL'TSOV, A.D., red.; STRUZHESTRAKH, Ye.I., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va; POCHTAREVA, A.V., red. izd-va; TIKHANOV, A.Ya., tekhn. red.; MODEL', B.I., tekhn. red.

[Handbook for the establishment of norms in the machinery industry in 4 volumes]Spravochnik normirovshchika-mashinostroitelia v 4 tomakh. Moskva, Mashgiz, Vol. 4. [Engineering norms in auxiliary shops]Tekhnicheskoe normirovanie vo vspomogatel'nykh tsekhakh. 1962. 478 p. (MIRA 16:2)
(Machinery industry--Production standards)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4

SHESTOPAL, V. M.

"Technical and economic bases of specialization in designing of foundries."

report submitted for 31st Intl Foundry Cong, Amsterdam, 21-25 Sep 64.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4"

BURGAEV, F.I.; GAVOVKO, I.D.; SHESTYOPAL, V.M., doktor tekhn. nauk,
retsenzent

[Ready reference tables for the design of foundries] Spra-
vochrye tablitsy po proektirovaniyu liteinykh tsekhov. Mo-
skva, Mashinostroenie, 1964. 231 p. (MIRA 17:10)

1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963.

1951-1952 International Congress of Boundarymen. Lit. preizv.
(MUR 18;6)
1951-1952 F 16a.

L 9673-66 EWT(1)/EWT(m)/EPF(n)-2/EWP(j)/EWP(t)/EWP(b)/EWA(h)/ETG(m) IIP(g)/RPL
 ACC NR: AP5027450 JD/VW/JW/RM SOURCE CODE: UR/0181/65/007/011/3461/3463 70
 64

AUTHOR: Shestopal, V. O. 44.55

ORG: Institute of Thermophysics SO AN SSSR, Novosibirsk (Institut teplofiziki SO
 AN SSSR) 44.55

TITLE: Specific heat and vacancy formation in titanium at high temperatures
 44.55 v1

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3461-3463

TOPIC TAGS: titanium, heat capacity, crystal vacancy

ABSTRACT: A modulation method was used for determining the thermal capacity of ti-
 tanium. A titanium iodide wire specimen was heated using ac current, and the speci-
 fic heat was found from the formula 21,44,55 11

$$mc_p = \frac{P}{2\omega\theta}.$$

where P is the power and ω the frequency of the current fed to the specimen, m is
 the weight of the specimen and θ accounts for the amplitude of temperature oscilla-
 tions. The color temperature of the specimen was determined using a photomultiplier
 with red and blue light filters. The vacancy concentration is given by the formula

$$C = 170e^{-\frac{1.8 \cdot 10^4}{T}}$$

Card 1/2

2

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ACC NR: AP5027450

12

which attains a value of 1.7% at the melting point. Curves are given showing the thermal capacity of titanium as a function of temperature. Satisfactory agreement is found between experimental points for three specimens and the experimental curve

$$c_p = 0.120 + 2.2 \cdot 10^{-5} T + \frac{2.3 \cdot 10^3}{T^2} e^{-\frac{1.8 \cdot 10^4}{T}}$$

A comparison with previous data in the literature shows a considerable divergence in some cases. The author thanks P. G. Strelkov and Ya. A. Kraftmakher for interest in the work, G. G. Zaytseva for consultation, and D. S. Mirinskiy for assistance in preparing the specimens. Orig. art. has: 1 figure, 3 formulas.

SUB CODE: 20 / SUBM DATE: 19Jun65 / ORIG REF: 001 / OTH REF: 002

44,53

44,53

44,53

AC

Card 2/2

L 166E4-66 ENT(1)/ENT(e)/ENT(m)/EPF(n)-2/EWA(h) WW/JW/WH
ACC NR: AP5021921 SOURCE CODE: UR/0207/65/000/004/0170/0171

AUTHOR: Kraftmakher, Ya. A. (Novosibirsk); Shestopal, V. O. (Novosibirsk)

ORG: none

TITLE: Heat capacity of graphite at temperatures in the 1750°-2850°K range

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1965, 170-171

TOPIC TAGS: heat capacity, graphite, emissivity

ABSTRACT: The heat capacity of graphite was measured. The study made use of modulation methods and optical pyrometry. Specimens of spectrally pure graphite heated by 50 cps ac current were measured in a vacuum in the 1750°-2200°K range and in an argon atmosphere in the higher (2000-2850°K) range. Heat capacity was calculated according to the formula

$$mc = P/2\omega\theta$$

where P = power; ω = current frequency; θ = amplitude of temperature oscillation. Measurements were based on changes (measured by two light

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L 16684-66

ACC NR: AP5021921

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filters) in the radiant emissivity of the specimens. Color temperature lamps were used to calibrate the photomultiplier tube used in emissivity measurement in the 1700-3000°K range; tungsten filaments were used in the 2100-2550°K range. Results of the measurement of heat capacity of graphite in the 1750-2850°K range shown for five specimens are graphed. Measurements were accurate to ±5%. Results are compared with those of other authors. The authors thank P. G. Stralkov for his interest in the work and N. G. Potapov for preparing the specimens. Orig. art. has: 1 graph, 5 formulas.

SUB CODE: 11, 20/ SUBM DATE: 09Jan65/ ORIG REF: 004/ OTH REF: 008

Card 2/25M

BRODSKIY, N.G.; SHESTOPAL, Ya.

[Chemical partial drying of mother beets before lifting]
Preduborochnoe khimicheskoe podushhivanie vysadkov sakharnoi
svekly. Moskva, Pishchepromizdat 1956. 45 p. (MLRA 10:4)
(Sugar beets)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4

SAMGIN, P.A.; SHESTOPAL, Ya.V.; ZOSIMOVSKAYA, T.V.; GONCHAROV, Ye.R.

Chemical shrub control from the airplane. Zashch. rast. ot vred.
i bol. 6 no.4:20-21 Ap '61. (MIRA 15:6)
(Kalinin Province--Clearing of land)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4"

20891

9,2572 (also 1144,1154)

S/535/60/000/128/005/008
E036/E135AUTHORS: Samoylenko, V.I., Candidate of Technical Sciences, and
Shestopalov, A.M., EngineerTITLE: Some Questions Concerning Parametric Amplification
Using p-n Junction CapacitancePERIODICAL: Moscow. Aviatsionnyy institut. Trudy, No.128, Moscow,
1960. Primeneniye poluprovodnikovykh priborov v
aviatsionnykh radiotekhnicheskikh ustroystvakh;
sbornik statey, pp. 64-73TEXT: In previously published work (Refs. 1 and 4)
parametric amplification using resonant circuits was considered.
In the present paper the authors consider the uses of voltage
divider and bridge type circuits for amplification. The voltage
divider circuit is shown in Fig. 1. The high frequency source
voltage is U_w which is in series with the p-n junction
capacitance C and the resistance R_1 . A detector with a load
 R_H is connected across R_1 . The capacitance C is varied at a
comparatively low frequency by the voltage U_{BX} . The junction is

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Moscow Aviation Institut 20. Dec. 8. Telephone Kedze

20891

S/535/60/000/128/005/008
E036/E135Some Questions Concerning Parametric Amplification Using p-n
Junction Capacitance

reverse biased by the voltage E_{CM} . The output voltage, amplitude modulated, appears across R_H . Power and current gain are possible but not voltage gain. This simple circuit is then analyzed to obtain expressions for voltage, current and power gain. The current and power gain in this circuit for quoted parameters are 40 and 10. An alternative, simpler form of the circuit is given in Fig. 2; here the p-n junction (C) is fed from a high frequency current generator. A similar analysis is carried out in this case, an ideal detector also being assumed. Shunting of the junction by the detector is taken into consideration. In this circuit the maximum power gain is $1/4$ the ratio of the input resistance of the circuit to the load resistance, compared to $1/16$ of this ratio in the first circuit. In Fig. 4 the bridge circuit amplifier with a p-n junction capacitance is shown, in which the high frequency is applied through the small capacitance C. The reverse biases are applied to the four p-n junctions C through the potentiometer R_1 . The signal to be amplified is

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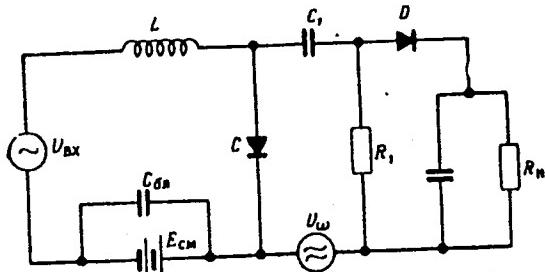
S/535/60/000/128/005/008
E036/E135

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Some Questions Concerning

Ref. 4: H. Urkowitz, A ferroelectric amplifier.
Journal of the Franklin Institute, 1958, No. 12.

Fig. 1



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20893

9,2586 (also 1139, 1161)

S/535/60/000/128/007/008
E036/E135

AUTHOR: Shestopalov, A.M., Engineer

TITLE: A Kipp Relay Using Junction Transistors With
Electronic Control of the Pulse Length

PERIODICAL: Moscow. Aviatsionnyy institut. Trudy, No.128, Moscow,
1960. Primeneniye poluprovodnikovykh priborov v
aviatsionnykh radiotekhnicheskikh ustroystvakh;
sbornik statey, pp. 84-90

TEXT: It is sometimes convenient to control pulse lengths
electronically, that is, by voltage control. This can be
achieved by means of a Kipp relay circuit with pulse length
control, using transistors which the author describes and
analyzes in simple terms and which is shown in Fig.1 (-24B = 24V;
Bbl xod = output). The pulse length is controlled by means of the
voltage E_1 . An expression for the pulse length τ is derived.
In the practical circuit a variation of E_1 from -17.8 to -29
volts altered the pulse length from 8 to 1400 μ sec. Over this
range the output pulse amplitudes of 18 V do not vary by more than
10%. The pulse rise and fall times are about 4 μ sec.

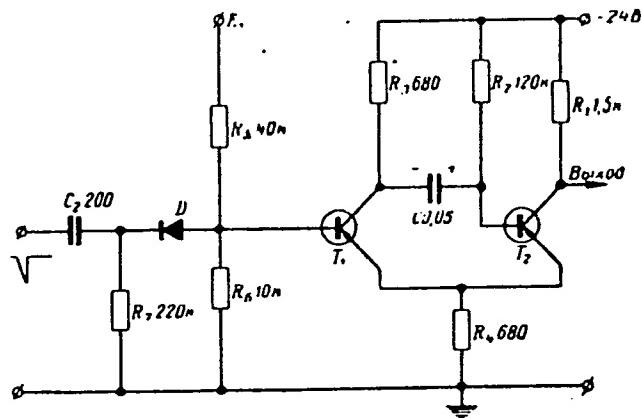
Card 1/4

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S/535/60/000/128/007/008
E036/E135

A Kipp Relay Using Junction

Fig.1



Card 3/4

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S/535/60/000/128/007/008
E036/E135

A Kipp Relay Using Junction

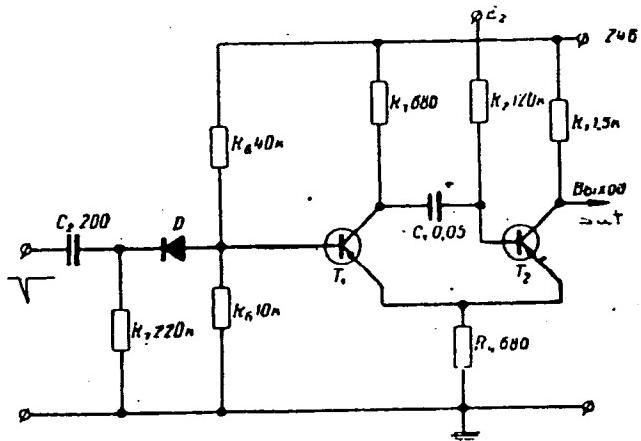


Fig. 4

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RELEASE: 07/13/2001

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S/1 CIA RDP86-00513R001549130004-4
E192/E502

AUTHORS: Shchepetov, A.N. and Samoylenko, V.I.
TITLE: Capacitance of a varicap and the distribution of ionized impurities in its p-n junction
PERIODICAL: Radiotekhnika, v. 5, no. 6, 1962, 688 - 698
TEXT: A semiconductor junction varies along the axis perpendicular to the plane of the junction, in which the concentration of ionized impurities in the p-n junction is considered. The differential capacitance of the depletion layer, i.e. the plate capacitor, is expressed by a formula similar to that of the parallel plate capacitor, i.e.

$$C = \frac{\epsilon S}{4\pi(x_2 - x_1)}$$

where ϵ is the permittivity of the semiconductor material and S is the area of the p-n junction. The problem consists of

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S/142/62/005/006/004/011
E192/E382

Capacitance of a varicap

$$C = C_0 \left(\frac{\varphi_K}{U + \varphi_K} \right)^n \quad (13)$$

where C_0 is the initial capacitance and φ_K is the contact potential. For this $C(U)$ Eq. (9) is used to evaluate $\varphi(x_1)$ when $\varphi(x_2) = \varphi x_2^m$ and $\varphi'(x_2) = \varphi'$. Eq. (9) can be used for approximate calculation of the acceptor (or donor) distribution for a given distribution of donors (or acceptors) and a given experimental graph showing the functional dependence of the capacitance on the applied voltage U . There are 6 figures.

ASSOCIATION: Kafedra teoreticheskoy radiotekhniki Moskovskogo ordena Lenina aviationskogo instituta imeni Sergo Ordzhonikidze (Department of Theoretical Radio-engineering of Moscow "Order of Lenin" Aviation Institute imeni Sergo Ordzhonikidze)

SUBMITTED: January 30, 1962 (initially)
April 25, 1962

Card 5/4

SHESTOPALOV, Aleksandr Osipovich, kand. tekhn. nauk; BONDARENKO,
Viktor Ivanovich, inzh.; KOSTROV, I.N., inzh., retsenzent;
ENGEL', F.F., inzh., nauchnyy red.; GENKIN, Ye.M., red.;
SEMUSHKIN, I.S., tekhn. red.

[Lowering the water level in the construction of the Volga
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imeni XXII s"ezda KPSS. Moskva, Gidroproyekt, 1962. 86 p.
(MIRA 17:4)

LOPATINA, O.F., starshiy nauchnyy sctr.; KORENEV, K.N., inzh.;
ANDREYEV, I.D., nauchnyy sotr.; SHESTOPALOV, D.I., agr.; YESIKOV,
P.R., agr.; MOLOTKOV, P.S., red.; ITUNINA, R.G., red.; SERADZSKAYA,
P.G., tekhn. red.

[Manual on wages and the establishment of work norms on collective
farms] Spravochnik po oplatе i normirovaniyu truda v kolkhozakh.
Voronezh, Voronezhskoe knizhnoe izd-vo, 1959. 189 p.

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(Voronezh Province--Collective farms--Production standards)

BOL'SHAKOV, A.; SHESTOPALOV, F.

Changes in the design of steering drag rod terminals. Avt.transp.
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33 no.7:35 J1'55.
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(Parachutes)

BELEVTSOV, G.A.; KRASAVTSEV, N.I.; MISICHENKO, N.M.; SOLDATKIN, A.I.;
SHARKEVICH, L.D.; Prinimali uchastiye: FROLOV, S.Ya.;
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USOV, V.T.; GLOTOV, P.L.; VOLKOVA, A.Ya.; ALDOKHINA, V.P.;
VOLOSHIN, Yu.T.; SHUMAKOV, I.S.; ZAPOROZHETS, N.P.;
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(Blast furnaces--Equipment and supplies)

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MISHCHENKO, N.M.; POPOV, N.N., kand. tekhn. nauk; SEMIK, I.P.,
kand. tekhn. nauk; TOTSKIY, G.P., kand. tekhn. nauk; SHESTOPALOV,
I.I.; Prinimali uchastiye: SOLDATKIN, A.I.; SOLOMKO, V.P.;
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BESSCHASTNYY, A.Ye.; SHVETS, N.Kh.; LIKHUNIN, S.D.; SHUMSKIY, L.B.;
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Desulfuration of pig iron in a fast-revolving and continuous
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(Automobiles—Maintenance and repair)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549130004-4

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APPROVED FOR RELEASE: 07/13/2001

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institut avtomobil'nogo transporta.
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Gos. izd-vo "Fizkul'tura i sport." 1954. 183 p. (MLRA 7:11)
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